# Elementary Algebra Test

**Directions:** Solve each problem, choose the correct answer, and then blacken the corresponding space on your answer sheet. For some questions, the fifth choice for an answer will be "not give". Whenever none of the first four possible answers is correct, choose "not given" as your answer.

Do not linger over problems that take too much time. Solve as many as you can; then return to the others in the time you have left.

1. If $5 \times 10^n = 0.005$, then $n = ?$

    **A.** -5                                    **D.** 2
    **B.** -3                                    **E.** 3
    **C.** -3

2. If $x = -3$, then $x^2 - 2x + 1 = ?$

    **A.** 16                                    **D.** -11
    **B.** 4                                     **E.** -14
    **C.** 1

3. Which of the following gives $6a^2b^3 - 3a^2b$ in a factored form?

    **A.** $3a^2b(2b^2)$                           **D.** $3a^2b(2b^2-1)$
    **B.** $3a^2(2b^2-1)$                        **E.** $a^2b(6b^2-1)$
    **C.** $3ab(2ab^2-1)$

4. For all $x$ not $= 0$ and $y$ not $= 0$, $(3x^{-2}y^3)^2 / xy = ?$

    **A.** $9x^3y^8$                                **D.** $9y^5/x^5$
    **B.** $9y^4/x$                                **E.** $9y^7/x^5$
    **C.** $9y^4/x^2$

5. $-2|3-4-5| = ?$

    **A.** -12                                  **D.** 12
    **B.** -8                                    **E.** 24
    **C.** 8

6. Which of the following fractions is equivalent to 0.05?

    **A.** 1/5                                    **D.** 1/50
    **B.** 1/20                                  **E.** 1/200
    **C.** 1/25

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**Answers**

1. B 2. A 3. D 4. D